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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,427	08/10/2001	Shinichi Yamagata	P 281112 SO2-137339C/KQK	5385
7590	06/18/2003			
McDERMOTT, WILL & EMORY 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			EXAMINER	
			JENKINS, DANIEL J	
		ART UNIT	PAPER NUMBER	
		1742		

DATE MAILED: 06/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/925,427	YAMAGATA ET AL.
	Examiner Daniel J. Jenkins	Art Unit 1742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 24 March 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 35-49 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 41-49 is/are allowed.
- 6) Claim(s) 35-39 is/are rejected.
- 7) Claim(s) 40 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. 08/874,543.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>1</u> . | 6) <input type="checkbox"/> Other: _____                                    |

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1. The Examiner has carefully considered Applicant's Response of 3/24/03. In light of the amendment, the rejection of claims 41-49 is withdrawn. The Examiner has added a new reference to establish the prior assertion of the knowledge in the art of using a nitrogen atmosphere during sintering of aluminum/metal carbide bodies, the rejection accordingly not made final.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 35-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zedalis et al. in view of Weaver.  
Zedalis et al. disclose a method of forming a composite material comprising:  
providing an aluminum powder (col. 1, lines 61-63);  
adding a silicon carbide powder to the aluminum powder to form a mixture (col. 3, lines 31-35);  
compacting said mixture to form a compact (col. 4, lines 54-58); and  
sintering said compact to form an aluminum/silicon carbide composite material (col. 4, lines 58-64).  
Zedalis et al. further disclose wherein the sintering takes place at temperature up to 600°C (col. 4, line 64).  
However, Zeladis et al. is silent as to the sintering atmosphere, leaving it to one skilled in the art to look at the teaching of the prior art to determine the sintering atmosphere.

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Weaver teaches at col. 3, lines 46-54 and col. 4, lines 53-55, to use a nitrogen atmosphere free of oxygen in the same field of endeavor for the purpose of supplying a non-oxidizing atmosphere to sinter aluminum/metal carbides.

It would have been obvious to one having ordinary skill in the art at the time of the invention to use the nitrogen atmosphere of Weaver in the invention of Zedalis et al. in order to provide for a non-oxidizing atmosphere.

4. Claim 40 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 41-49 are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 703-306-4157. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9593 for regular communications and 703-305-7719 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.



Daniel J. Jenkins  
Primary Examiner  
Art Unit 1742

dj  
May 30, 2003